ENVIRONMENTAL CHEMISTS

Date of Report: 09/04/03 Date Received: 08/14/03

Project: Metro Self Monitor, PO# M10045A, F&BI 308140

Date Extracted: 09/03/03 Date Analyzed: 09/03/03

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

	Sample ID	<u>Chromi</u>	<u>um</u> <u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
	Laboratory ID	원통하다 보다 얼마를			
		atika asika aiNa			
	M10045A	0.42	0.33	0.37	< 0.10
200	308140-01				
	Method Blank	< 0.05	< 0.05	< 0.05	< 0.10

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Date of Report: 09/04/03 Date Received: 08/14/03

Project: Metro Self Monitor, PO# M10045A, F&BI 308140

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 308292-01 (Duplicate)

		Reporting	Sample	Duplicat	Relative te Percent	Acceptance
	Analyte	Units	Result	Result	Difference	Criteria
d	Chromium	mg/L (ppm)	0.68	0.68	0	0-20
	Copper	mg/L (ppm)	0.34	0.34	0	0-20
- 1	Nickel	mg/L (ppm)	0.40	0.40	0	0-20
31	Zinc	mg/L (ppm)	< 0.10	< 0.10	nm	0-20

Laboratory Code: 308292-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recove	ry Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	2	0.68	90	80-120
Copper	mg/L (ppm)	2	0.34	91	80-120
Nickel	mg/L (ppm)	4	0.40	96	80-120
Zinc	mg/L (ppm)	2	< 0.10	103	80-120

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	e % Recov	ery % Recov	ery	Acceptanc	e RPD	. 413
Analyte	Units	Leve	l LCS	LCSI)	Criteria	(Limit 2	20)
Chromium	mg/L (ppm)	2	92	93		80-120	1	
Copper	mg/L (ppm)	2	91	93		80-120	2	
Nickel	mg/L (ppm)	4	96	95		80-120	1	
Zinc	mg/L (ppm)	2	98	97		80-120	1	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

308140			SAN	MPLE CHA	IN OF C	US7	гоі	ΟY		٠		CI	١	8/1	4/0	3 AII
Send Report To G. Th	ampson)		SAMPLERS (all .			7			10 1			Т	URN	of
Company ALASKAN Address 628 S. 1	Copper Assort	WOH	45	PROJECT NA		m	۱۸,۰	lon		M	РО />>	# %A		RUS	SH	(2 Weeks)
City, State, ZIP SEATE Phone # 206-387-8379	CNA	C-782-9	Fot	REMARKS		exe			1					Disp Retu	ose a irn sa	PLE DISPOSAL fter 30 days mples vith instructions
,										ANA	LYSI	ES REQ	UEST	JESTED		
Sample ID	Lab ID	Date	Time	Sample Type	, # of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	8270	HFS	Or, ~2,2		-		Notes
M10045A	01	8/1/03	10.70	H20	1											
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Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 4, 2003

DUPLICATE COPY

INVOICE # 03ACU0904-2

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M10045A, F&BI 308140 - Results of testing requested by Gerry Thompson for material submitted on August 14, 2003.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample \$ 80.00

Amount Due \$ 80.00

FEDERAL TAX ID # (b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 4, 2003

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on August 14, 2003 from the Metro Self Monitor, PO# M10045A, F&BI 308140 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlene Morrow

Charlene Morrow

Chemist

Enclosures ACU0904R.DOC